#### (19) World Intellectual Property Organization International Bureau



# I COLIN CONTROL IL RECOLUE COLIN COLIN CALLA COLIN FOLIA COLIN COLIN COLIN COLIN COLIN COLIN COLIN COLIN COLIN

(43) International Publication Date 13 January 2005 (13.01.2005)

**PCT** 

# (10) International Publication Number WO 2005/003220 A2

(51) International Patent Classification<sup>7</sup>:

C08K 3/00

(21) International Application Number:

PCT/US2004/019905

(22) International Filing Date: 2

22 June 2004 (22.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/483,271

25 June 2003 (25.06.2003) US

(71) Applicant (for all designated States except US): DOW GLOBAL TECHNOLOGIES INC. [US/US]; Washington Street, 1790 Building, Midland, MI 48674 (US).

(72) Inventors; and

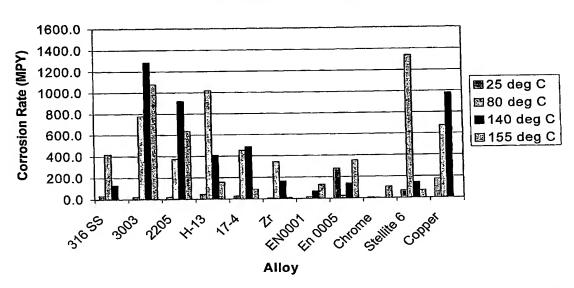
(75) Inventors/Applicants (for US only): BISCOGLIO, Michael, B. [US/US]; 164 Nebula Road, Piscataway, NJ 08854 (US). DEVLIN, Kenneth, T. [US/US]; 207 Chatsworth Drive, Somerset, NJ 08873 (US). RUSSELL, Patrick, M. [US/US]; 4451 Wise Road, Freeland, MI 48623 (US). WRIGHT, David, P. [US/US]; 46 Whitby Circle, Somerset, NJ 08873 (US). CHAUDHARY, Bharat, I. [US/US]; 14 Michelle Court, Princeton, NJ 08540 (US). KLIER, John [US/US]; 46 Millers Grove, Belle Mead, NJ 08502 (US). BETSO, Stephen, R. [US/US]; 113 Distant View Drive, Asheville, NC 28803 (US). GROSS, Laurence, H. [US/US]; 977 Rector Road, Bridgewater, NJ 08807 (US).

- (74) Agent: HANSBRO, Kevin, R.; The Dow Chemical Company, Intellectual Property, P.O. Box 1967, Midland, MI 48641-1967 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: POLYMERIC COMPOSITION - CORROSION INHIBITORS

### **Corrosion vs Alloy**



(57) Abstract: The present invention is a polymeric composition comprising a polymer, a cathodic corrosion inhibitor, and an acidic corrosive reagent. The polymeric composition may further comprise a blowing agent and/or a second corrosion inhibitor. The present invention specifically also includes moisture-crosslinkable polymeric compositions. The moisture-crosslinkable compositions can be used as a coating and applied over a wire or a cable.

## WO 2005/003220 A2



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### Published:

 without international search report and to be republished upon receipt of that report

# (19) World Intellectual Property Organization International Bureau



# T DE LE CHINDEL I STOLLE MAN COME COME CHIN E HIN E HIN COME CALL HIN HIN COME COM COLLEG HIN COLL

(43) International Publication Date 13 January 2005 (13.01.2005)

PCT

(10) International Publication Number WO 2005/003220 A3

(51) International Patent Classification<sup>7</sup>: C08K 11/00

C08F 8/00,

(21) International Application Number:

PCT/US2004/019905

(22) International Filing Date: 22 June 2004 (22.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/483,271

25 June 2003 (25.06.2003) US

- (71) Applicant (for all designated States except US): DOW GLOBAL TECHNOLOGIES INC. [US/US]; Washington Street, 1790 Building, Midland, MI 48674 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BISCOGLIO, Michael, B. [US/US]; 164 Nebula Road, Piscataway, NJ 08854 (US). DEVLIN, Kenneth, T. [US/US]; 207 Chatsworth Drive, Somerset, NJ 08873 (US). RUSSELL, Patrick, M. [US/US]; 4451 Wise Road, Freeland, MI 48623 (US). WRIGHT, David, P. [US/US]; 46 Whitby Circle, Somerset, NJ 08873 (US). CHAUDHARY, Bharat, I. [US/US]; 14 Michelle Court, Princeton, NJ 08540 (US). KLIER, John [US/US]; 46 Millers Grove, Belle Mead, NJ 08502 (US). BETSO, Stephen, R. [US/US]; 113 Distant View Drive, Asheville, NC 28803 (US). GROSS, Laurence, H. [US/US]; 977 Rector Road, Bridgewater, NJ 08807 (US).

- (74) Agent: HANSBRO, Kevin, R.; The Dow Chemical Company, Intellectual Property, P.O. Box 1967, Midland, MI 48641-1967 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- (88) Date of publication of the international search report: 24 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: POLYMERIC COMPOSITION - CORROSION INHIBITORS

(57) Abstract: The present invention is a polymeric composition comprising a polymer, a cathodic corrosion inhibitor, and an acidic corrosive reagent. The polymeric composition may further comprise a blowing agent and/or a second corrosion inhibitor. The present invention specifically also includes moisture-crosslinkable polymeric compositions. The moisture-crosslinkable compositions can be used as a coating and applied over a wire or a cable.